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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/658,697	09/09/2003	Derek Comes	PPD 50661	3154
26748	7590 06/29/2004		EXAMINER	
SYNGENTA CROP PROTECTION , INC. PATENT AND TRADEMARK DEPARTMENT			CLARDY, S	
410 SWING F		ART UNIT	PAPER NUMBER	
GREENSBORO, NC 27409			1616	
			DATE MAILED: 06/29/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/658,697	CORNES, DEREK			
Office Action Summary	Examiner	Art Unit			
	S. Mark Clardy	1616			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet	with the correspondence add	ress		
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may within the statutory minimum of the vill apply and will expire SIX (6) MG, cause the application to become	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this com ABANDONED (35 U.S.C. § 133).	nmunication.		
Status					
Responsive to communication(s) filed on <u>02 February 2004</u> . This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 10-17 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 10-17 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) acceed to the description of the descrip	vn from consideration. r election requirement. r. epted or b) objected to drawing(s) be held in abeya ion is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR			
Priority under 35 U.S.C. § 119	armier. Note the attack				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☒ None of: 1. ☒ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 2-2-04.	Paper No	Summary (PTO-413) o(s)/Mail Date Informal Patent Application (PTO-1	52)		

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Claims 10-17 are pending in this application which has been filed as a continuation of international application PCT?GB02/02534, filed June 6, 2002. The foreign priority documents do not appear to have been filed in this application, nor is the priority claim in the first sentence of the specification.

Applicant's claims are drawn to synergistic herbicidal methods and compositions comprising:

- a) mesotrione
- b) "a second herbicide, flumetsulam, or their herbicidally effective salts."

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 10-17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It appears that the intent in claim 10 is to claim the synergistic combination of mesotrione and flumetsulam; however, the phrase "a second herbicide" precedes "flumetsulam". Thus the claim may be interpreted as reading on any second herbicide, such as the specific second herbicide flumetsulam.

A broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation (in the same claim) is considered indefinite, since the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. Note the explanation given by the Board of Patent Appeals and Interferences in *Ex parte Wu*, 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is followed by "such as" and then narrow language. The Board stated that this can render a claim indefinite by

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raising a question or doubt as to whether the feature introduced by such language is (a) merely exemplary of the remainder of the claim, and therefore not required, or (b) a required feature of the claims. Note also, for example, the decisions of *Ex parte Steigewald*, 131 USPQ 74 (Bd. App. 1961); *Ex parte Hall*, 83 USPQ 38 (Bd. App. 1948); and *Ex parte Hasche*, 86 USPQ 481 (Bd. App. 1949). In the present instance, claim 10 recites the broad recitation "a second herbicid", and the claim also recites "flumetsulam" which is the narrower statement of the range/limitation.

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 10-17 are provisionally rejected under the judicially created doctrine of double patenting over claims 1-9 of copending Application No. 10/479,479. This is a provisional double patenting rejection since the conflicting claims have not yet been patented.

The subject matter claimed in the instant application is fully disclosed in the referenced copending application and would be covered by any patent granted on that copending application since the referenced copending application and the instant application are claiming common

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subject matter, as follows: herbicidal compositions comprising mesotrione in combination with a secondary herbicidal agent (such as flumetsulam).

Furthermore, there is no apparent reason why applicant would be prevented from presenting claims corresponding to those of the instant application in the other copending application. See *In re Schneller*, 397 F.2d 350, 158 USPQ 210 (CCPA 1968). See also MPEP § 804.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 10 and 14 are rejected under 35 U.S.C. 102(a) and (b) as being anticipated by Mito (FR 2 781 983).

Mito teaches the synergistic combination of a pyridazinone phenoxyacetate ester herbicide with sulcotrione, mesotrione, isoxaflutole or isoxachlortole (Abstract).

Claims 10-15 are rejected under 35 U.S.C. 102(a) and (e) as being anticipated by Hacker et al (US 6,486,096).

Hacker et al teach herbicidal compositions comprising acylated aminophenylsulfonylureas in combination with secondary herbicides. Table 13 (column 36)

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provides test results for the combination of mesosulfuron (B1.4.4) with a second herbicide. From the table, the following results are noted:

Herbicide	Dose (g/ha)	Herbicidal Effect (%)		
		Observed	Expected (by Colby)	
A1.1	30	70		
B1.4.4	100	63		
A + B	30 + 50	90		
A + B	30 + 100		90	

Although Hacker et al do not present data for an A:B combination of 30:50, the data that is available may be used in the conventional Colby method to determine the expected effect for a 30:100 combination. The calculation¹ yields an expected effect of 90%, which is the same as the observed effect for the combination using half the B1.4.4 (mesotrione) rate. Thus, Hacker et al disclose and demonstrate synergistic combinations of mesotrione with a secondary herbicide; the disclosure of Hacker et al reads on applicants' claims.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 10-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combined teachings of Hacker et al and Mito (cited above).

¹ Expected effect = 70 + 63 - (70x63/100)

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These references have been discussed above. One of ordinary skill in the art would be motivated to combine these references because they both disclose the utility of combining mesotrione with secondary herbicidal agents in order to gain beneficial synergistic effects.

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Thus it would have been *prima facie* obvious to the ordinary artisan at the time the invention was made to have combined mesotrione in a synergistic combination with a second herbicidal agent because the prior art teaches that secondary herbicides in combination with mesotrione exhibit synergistic effects.

No data has been presented in the specification. No unexpected or unobvious results are noted; no claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Mark Clardy whose telephone number is 571-272-0611. The examiner can normally be reached on 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman Page can be reached on 571-272-0602. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

S. Mark Clardy

Primary Examiner

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